

Kundan Sai Chowdary Sannapaneni

📍 Boulder, Colorado, USA - 80301 | +1 (720) 2090719

✉ kundansaichowdary@gmail.com | 🌐 kusa7155@colorado.edu | 🐙 Github | 🌐 LinkedIn

EDUCATION

1. University of Colorado Boulder

Aug 2023 - May 2025

Master of Science - Data Science

CGPA: 4/4

Relevant Coursework : Data Mining, Data Science as a field, Statistical Methods and Applications-1, Cybersecurity for Data Science, Ethical Issues in Data Science

2. SSN College of Engineering

Jul 2019 - Jun 2023

Bachelor of Technology - Information Technology

CGPA: 8.78/10

Joint Secretary for AIT's (Association of Information Technologists) Student Office Bearers

Relevant Coursework : Machine Learning, Deep Learning, Computer Vision, Data Analytics, Statistics, Software Engineering, Data Structures, Design and Analysis of Algorithms, IoT and Network Security

TECHNICAL SKILLS

1. **Programming Languages:** C, C++, Python, R, SQL, HTML, CSS, JavaScript, PHP

2. **Tools and Frameworks:** TensorFlow, Keras, OpenCV, Snowflake, Scikit learn, PyTorch, SciPy, BeautifulSoup, Databricks, Express, AngularJs, GIT, GitHub, PowerBI, MySQL, MongoDB, ggplot2, SQLite.

WORK EXPERIENCE

1. Aparigraha Foundation

Full Stack Developer Intern

Aug 2021 - Jan 2022

- Collaborated with programmers and clients to develop visually appealing and responsive web interfaces.
- Optimized database management to enhance website performance and demonstrated expertise in version control systems for efficient collaboration.

2. VERZEO (Microsoft AEP)

AI Intern

Feb 2020 - Apr 2020

- Acquired a comprehensive understanding of Deep Learning through hands-on experience and mini-projects.
- Developed a robust CNN classification model to classify RGB images.
- Built a face recognition module to extract features to identify faces in images.

PROJECTS

1. Few-shot learning for Brain Tumor Segmentation (Bachelor's Thesis)

- Developed and executed a Few-shot Learning approach for precise brain tumor segmentation, achieving exceptional accuracy of 0.98, showcasing strong expertise in machine learning and medical image analysis.
- Implemented an innovative RU-Net architecture, fusing U-Net and RES blocks, and Attained impressive results through 30-epoch training.
- Optimized model deployment on Google Colab, achieving an outstanding Dice score of 0.72.

2. Parkinson's Disease Detection (Internally Funded Research Project)

- Built a Deep Convolution Neural Network (DCNN) utilizing brain MRI images and patient hand-drawn images to detect Parkinson's disease; achieved an accuracy rate of 85%, outperforming existing models by 7%.
- Received a Rs. 7,500 grant from the Research and Development Department for advancing the field.

3. IBM-Global Sales Data Analytics (Project-based learning program)

- Designed a comprehensive data analysis dashboard using IBM Cognos Analytics on the Global Super Store data set, enabling real-time insights and facilitating data-driven decision making.

4. Smart City Traffic Management and Prediction System

- Engineered a prototype system using Python and machine learning with OpenCV to analyze 5,000+ hours of traffic footage, aimed at optimizing urban traffic flow.
- Developed a Snowflake-based data framework and AngularJS dashboard for potential real-time traffic management.

5. Gender, Age and Emotion Detection from Voice

- Designed and implemented an innovative model that achieved an outstanding 90% accuracy in discerning gender, age, and emotion from a single source - voice data.
- Employed a diverse range of cutting-edge machine learning algorithms, including Random Forest, Decision Tree, and Support Vector Machine, to achieve exceptional accuracy and robust performance.

CERTIFICATIONS AND RELEVANT COURSES

1. Google Data Analytics in Coursera - Jul 2023
2. Snowflake – The Complete Masterclass - Jan 2023
3. Reinforcement Learning by IIT Madras (NPTEL) - Jul 2022
4. Deep Learning by IIT Ropar (NPTEL) - Jan 2022